

SUBJECT: TRIP REPORT - Eleventh Meeting of
Extra-Vehicular Activity Task
Force at MSC - Case 320

DATE: October 19, 1967

FROM: W. H. Hodge

MEMORANDUM FOR FILE

The eleventh meeting of the Extra-Vehicular Activity Task Force was held at MSC on October 11. The following items received the attention of the group:

1. EVA on CSM 104/LM-4 Mission - EVA on the CSM 104/LM-4 mission was regarded as highly desirable. This is in addition to the EVA planned for the CSM 103/LM-3 mission. Factors favoring this second earth-orbital EVA include (a) Gemini experience indicating lack of uniformity of performance among astronauts; (b) inability to duplicate the actual operational conditions in simulation tests; and (c) need for gaining confidence in the capabilities of the Portable Life Support System.
2. RCS Plume Impingement - General Electric presented the results of a study performed for Crew Systems Division to determine the heating effects of RCS plume impingement on the suit of an extra-vehicular crew member. This study indicated that the helmet visor temperature limits (the visor becomes plastic above 250°F) were exceeded by pulse lengths of one-half second at a distance from the nozzle exit of one foot. Based on this information and further study by CSD, the Task Force will make a determination of requirements for RCS operational modes during EVA.
3. Hatch Opening Exercise - The group decided that the first EVA mission should include exercise in opening the CM side hatch from the outside. Under some contingency transfer conditions, an extra-vehicular crew member may have to open the hatch without help from the CM pilot.

(NASA-CR-90744) ELEVENTH MEETING OF
EXTRA-VEHICULAR ACTIVITY TASK FORCE AT MSC
TRIP REPORT (Bellcomm, Inc.) 2 p

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4. RL Discs on LM Handrail - An RECP has been sent to GAEC for addition of six radioluminescent discs to the LM handrail. This is to provide for possible EVA when the transfer path is not in sunlight.

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2031-WHH-sjh

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